

August 2021: Month In Review

Weather Forecast Office
Binghamton, NY
Issued 2:30 PM Sept 8th, 2021



**Central New York &
Northeast Pennsylvania**

August Monthly Temperatures

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Binghamton, NY
Issued 2:30 PM Sept 8th, 2021



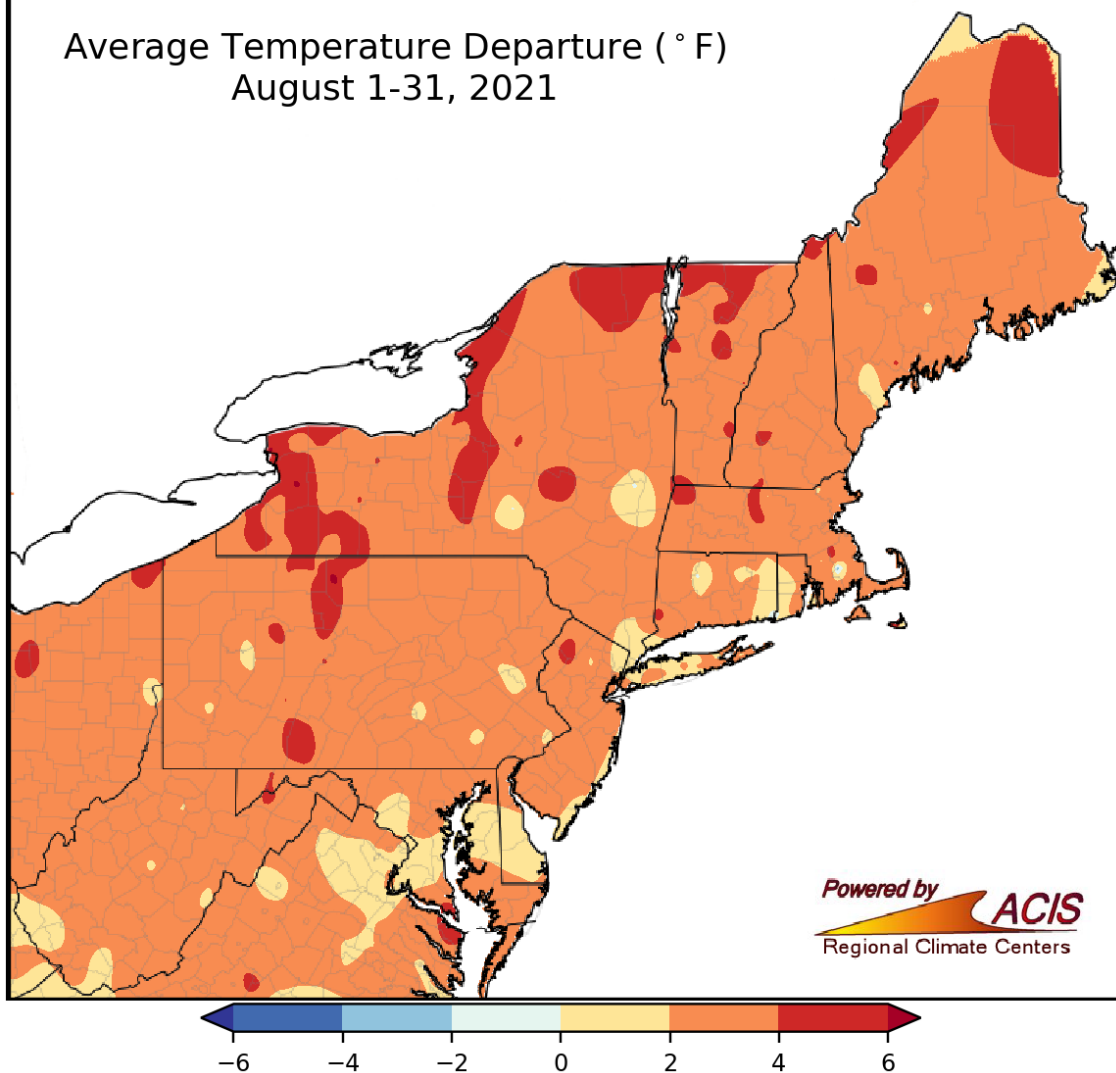
Location	Aug Avg Max T (Departure)	Aug Avg Min T (Departure)	Aug Avg T (Departure)	# of 90°+ Days (Avg #)
Binghamton, NY (Airport)	78.5° (+1.8°)	62.7° (+4.7°)	70.6° (+3.3°)	0 Days (1 Day)
Syracuse, NY (Airport)	84.7° (+4.4°)	66.2° (+5.8°)	75.5° (+5.1)	5 Days (2 Days)
Avoca (Scranton), PA	83.9° (+1.5°)	65.5° (+4.4°)	74.7° (+2.9°)	6 Days (3 Days)

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Average Temperature Departure (°F)
August 1-31, 2021



August featured above average temperatures across all of Central NY & Northeast PA; with monthly temperatures generally 2 – 5° F above average areawide

****Record warmest August for Syracuse, NY at 75.5°, which is 5.1°F above average (more details next slide)****

Map Courtesy of the Northeast Regional Climate Center



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weather.gov/bgm/

August Monthly Temperature Records: Syracuse NY

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#1 Warmest August Avg Temperature

Year	Aug
2021	75.5
1937	75.4
1955	74.5
1947	74.2
2016	74.1

#5 Warmest August Max Temperature

Year	Aug
1949	85.3
1955	85.1
1947	85.0
2001	84.9
2021	84.7
2012	84.7
2002	84.7

#2 Warmest August Min Temperature

Year	Aug
1937	66.4
2021	66.2
2016	64.3
2005	64.0
1955	64.0

- Very warm (2nd warmest for August) overnight lows significantly contributed to making this the hottest August on record for Syracuse NY. Daytime highs were the 5th warmest on record for August as well.

August Monthly Temperature

Records: Avoca PA

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#3 Warmest August Avg Temperature

Year	Aug
2005	75.5
1980	75.2
2021	74.7
1995	74.7
2016	74.5
2020	74.4
2018	74.1
1947	74.0
1939	74.0
1937	74.0

#2 Warmest August Min Temperature

Year	Aug
2018	65.8
2021	65.5
1980	64.9
2005	64.8
1947	64.6
2016	64.3
1937	64.2
1984	64.0
2020	63.8
1906	63.8

#10 Warmest August Max Temperature

Year	Aug
1995	86.9
2005	86.3
1980	85.4
2020	84.9
1939	84.9
1938	84.8
2016	84.6
1944	84.3
2002	84.2
2021	83.9

- Very warm (2nd warmest for August) overnight lows significantly contributed to making this the 3rd hottest August on record for Avoca PA. Daytime highs were the 10th warmest on record for August as well.

August Monthly Temperature Records: Binghamton NY

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#7th (Tied) Warmest August Avg Temperature

Year	Aug
2005	71.9
1995	71.6
1959	71.6
1955	71.5
1983	70.9
2001	70.7
2021	70.6
2002	70.6
1980	70.6
2016	70.5

#1 Warmest August Min Temperature

Year	Aug
2021	62.7
2018	62.5
1959	62.5
1955	62.2
2016	61.9
2005	61.8
1980	61.5
1978	61.1
1973	61.1
1984	60.9

#16th Warmest August Max Temperature

Year	Aug
1995	82.8
2005	82.0
1983	81.5
2002	81.2
1955	80.9
1959	80.8
2001	80.6
1966	80.4
1988	79.7
1980	79.6
2016	79.1
1991	79.0
1984	79.0
2020	78.9
1998	78.8
2021	78.5

- Very warm (warmest on record for August) overnight lows significantly contributed to making this tied for 7th hottest August on record for Binghamton NY. Daytime highs were only the 16th warmest on record.

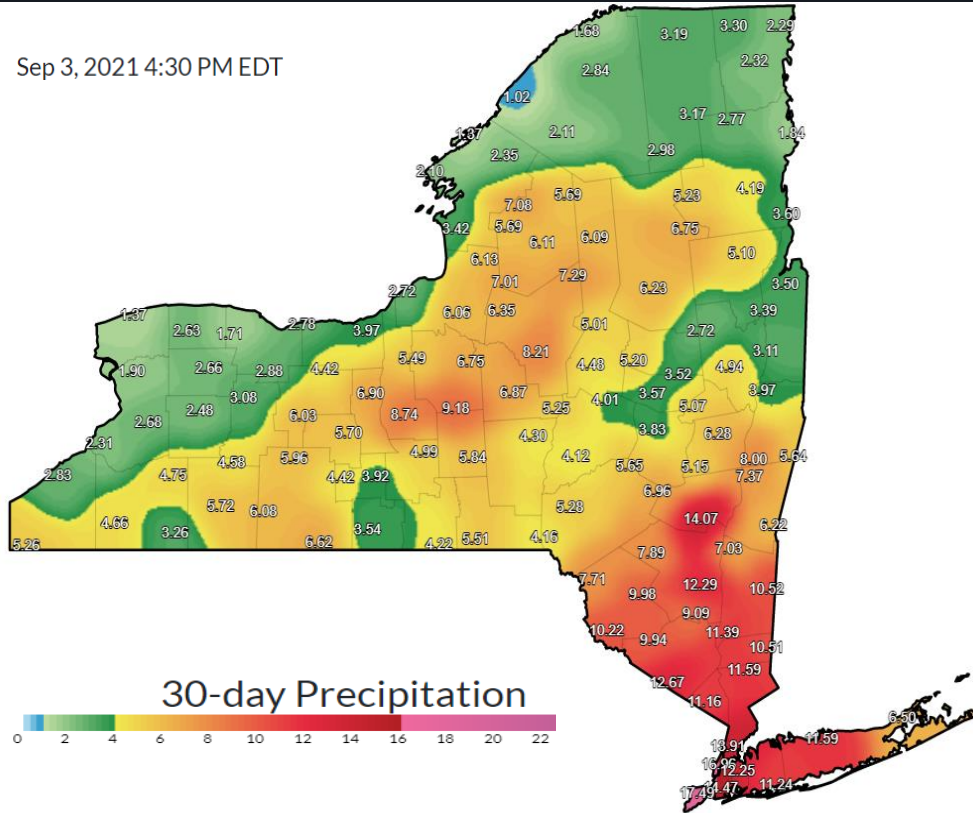
August Regional Rainfall Maps

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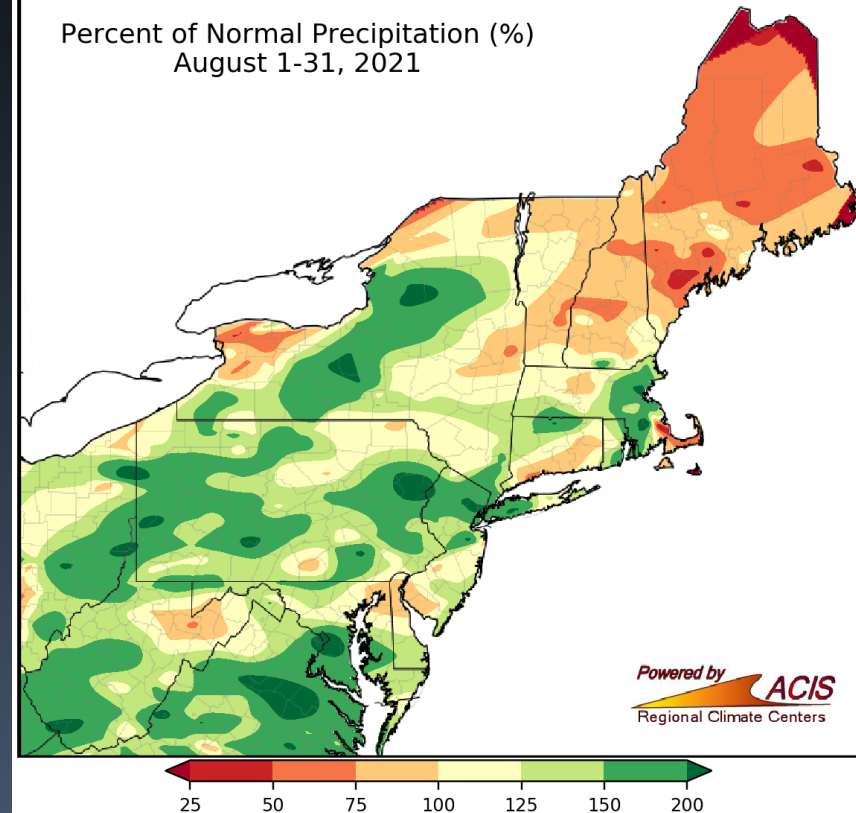
Above average rainfall in August was the rule for just about all of Central NY and Northeast PA; with totals ranging from 100-175% of normal, with a few spots in the Poconos & Finger lakes surpassing 200% of normal rainfall.

Sep 3, 2021 4:30 PM EDT



Map Courtesy of the New York Mesonet

Percent of Normal Precipitation (%)
August 1-31, 2021



Map Courtesy of the Northeast Regional Climate Center

August Rainfall Totals

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Location	August 2021 Rainfall Total	Greatest 1-Day Rain Total	August Monthly Rainfall Rank (Wettest & Year)
Binghamton, NY (Airport)	6.23" <i>+2.13"</i>	2.18" Aug 22 nd	6th wettest <i>(8.90" in 2011)</i>
Syracuse, NY	6.57" <i>+2.87"</i>	2.72" Aug 19 th	6th wettest <i>(8.41" in 1956)</i>
Avoca (Scranton), PA	6.13" <i>+2.32</i>	2.56" Aug 22 nd	12th wettest <i>(11.76" in 1955)</i>

6th Wettest August on Record: Binghamton NY

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Maximum 1-Month Total Precipitation for Binghamton Area, NY (ThreadEx)

Rank	Value	Ending Date	Missing Days
1	8.90	2011-08-31	0
2	8.88	2018-08-31	0
3	7.48	1959-08-31	0
4	6.79	1976-08-31	0
5	6.53	2006-08-31	0
6	6.23	2021-08-31	0
7	6.08	2012-08-31	0
8	5.96	2020-08-31	0
9	5.86	1994-08-31	0
10	5.79	1955-08-31	0
Period of record: 1951-05-25 to 2021-09-05			

12th Wettest August on Record:

Avoca PA

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Maximum 1-Month Total Precipitation for Avoca Area, PA (ThreadEx)

Rank	Value	Ending Date	Missing Days
1	11.76	1955-08-31	0
2	10.59	2018-08-31	0
3	8.17	1915-08-31	0
4	8.06	1933-08-31	0
5	8.03	2011-08-31	0
6	6.88	1901-08-31	0
7	6.84	1911-08-31	0
8	6.78	1994-08-31	0
9	6.60	1926-08-31	0
10	6.43	1937-08-31	0
11	6.17	2003-08-31	0
12	6.13	2021-08-31	0
Period of record: 1901-01-01 to 2021-09-07			

6th Wettest August on Record: Syracuse NY

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Maximum 1-Month Total Precipitation for Syracuse Area, NY (ThreadEx)

Rank	Value	Ending Date	Missing Days
1	8.41	1956-08-31	0
2	7.26	1943-08-31	0
3	7.19	1954-08-31	0
4	6.73	1976-08-31	0
5	6.66	2011-08-31	0
6	6.57	2021-08-31	0
7	6.36	2010-08-31	0
8	6.07	1905-08-31	0
9	5.95	2005-08-31	0
10	5.76	1937-08-31	0
11	5.45	1915-08-31	0
12	5.41	1903-08-31	0
Period of record: 1902-09-01 to 2021-09-07			

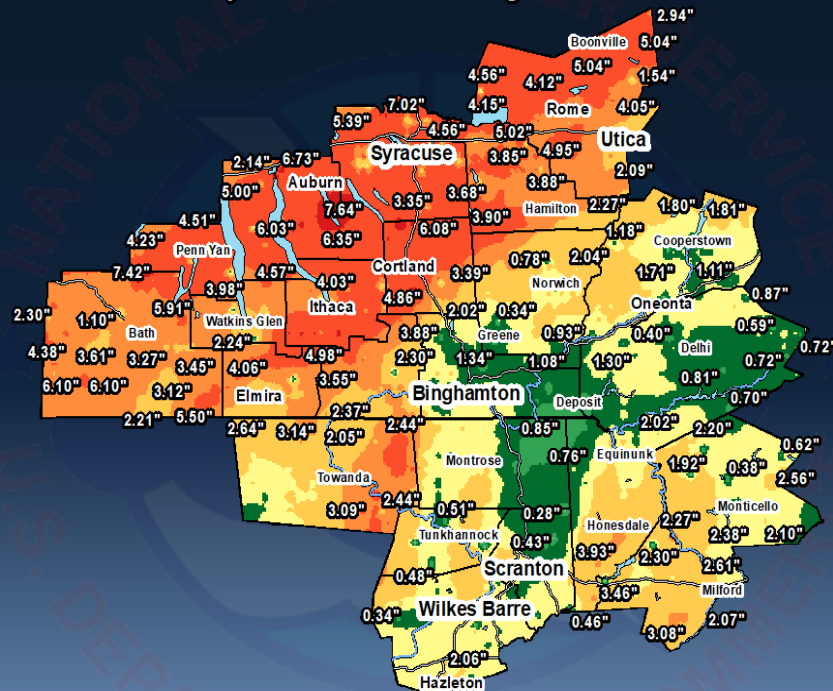
Remnants of TS Fred 8/18 – 19

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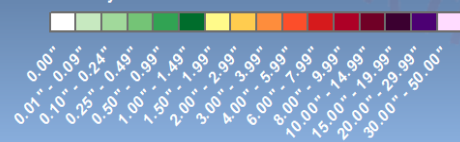


National Weather Service Binghamton New York Rainfall Analysis 08/16/2021 08:00PM to 08/19/2021 08:00PM

Analysis Data Source: AHPS and Regional Observations



Rainfall Analysis 0" - 50"



Created:
08/20/2021 10:42AM

This is an experimental product. Care should be taken in using the data. Unofficial observations are plotted. Values at interpolated locations may not represent actual precipitation totals at that location.

More Information including radar & satellite loops:
<https://www.weather.gov/bgm/pastFloodAugust202021>

- Remnant low pressure system moved directly across NE PA and Central NY on the 18th
- Heaviest rainfall amounts were reported north and west of Binghamton; including areas such as Hornell, Elmira, Ithaca, Auburn, Syracuse and Rome...where 4 to 8 inches of rain were measured
- Numerous flash-flood reports were received and several rivers and lakes reached minor to moderate flood stage; including Cayuga Lake



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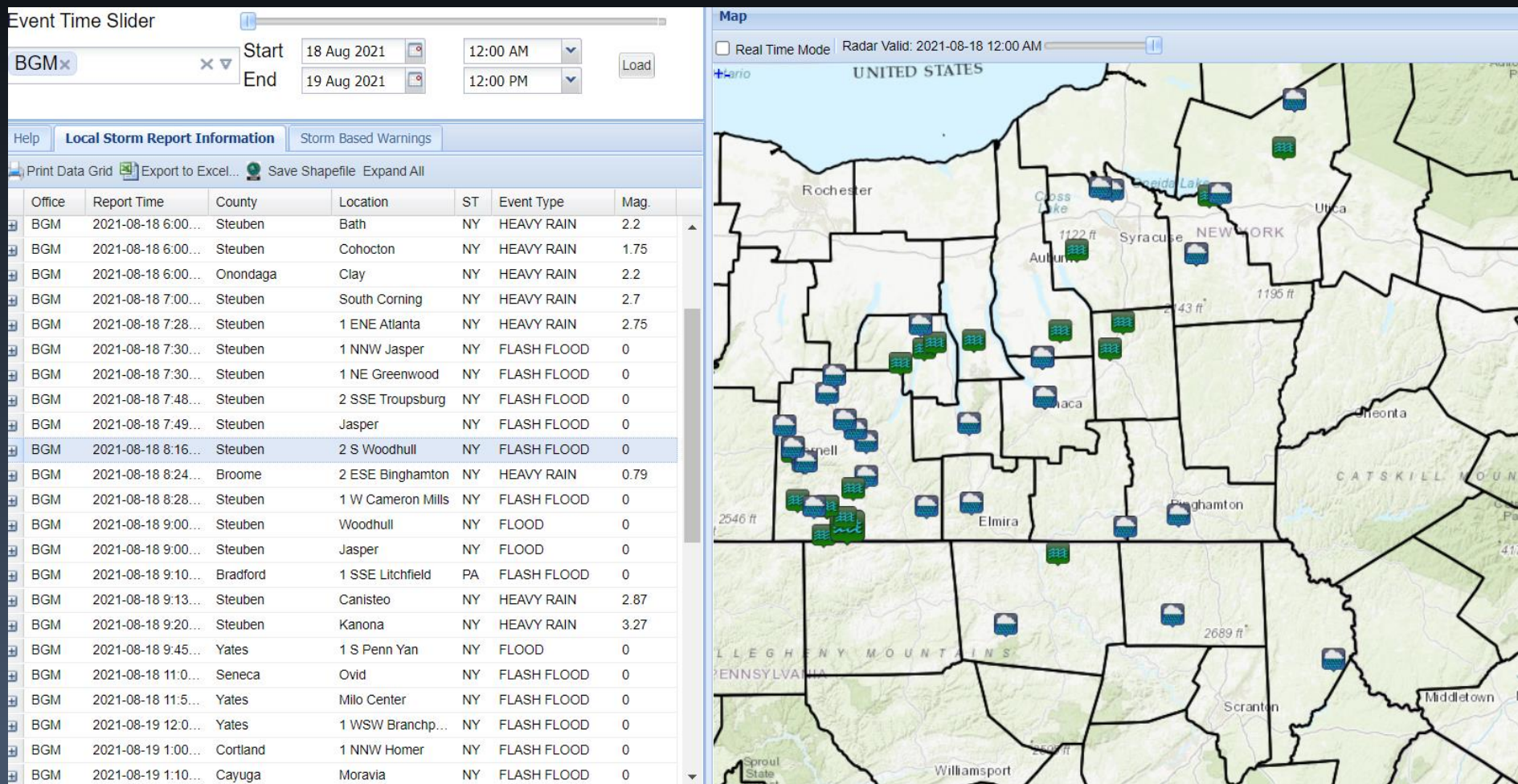
[weather.gov/bgm/](https://www.weather.gov/bgm/)

Remnants of TS Fred 8/18 – 19

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Flooding and Heavy Rain Reports



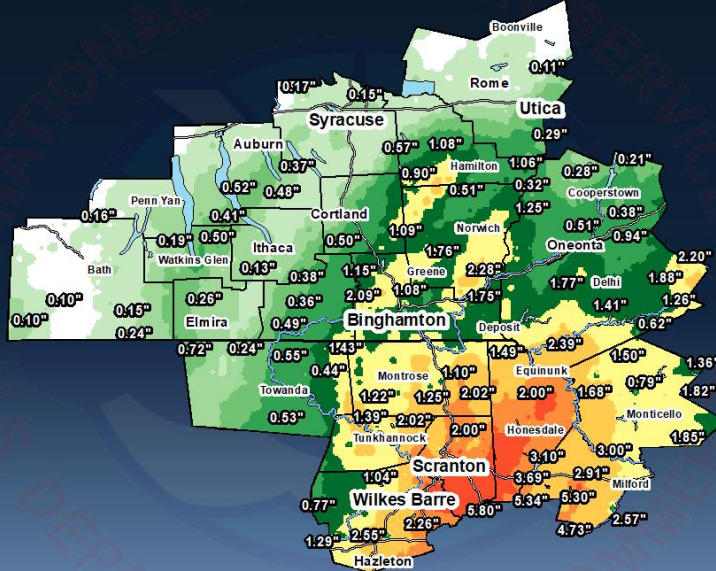
Hurricane Henri: Heavy Rain

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National Weather Service Binghamton New York
Rainfall Analysis 08/22/2021 08:00AM to 08/23/2021 08:00AM

Analysis Data Source: AHPS and Regional Observations

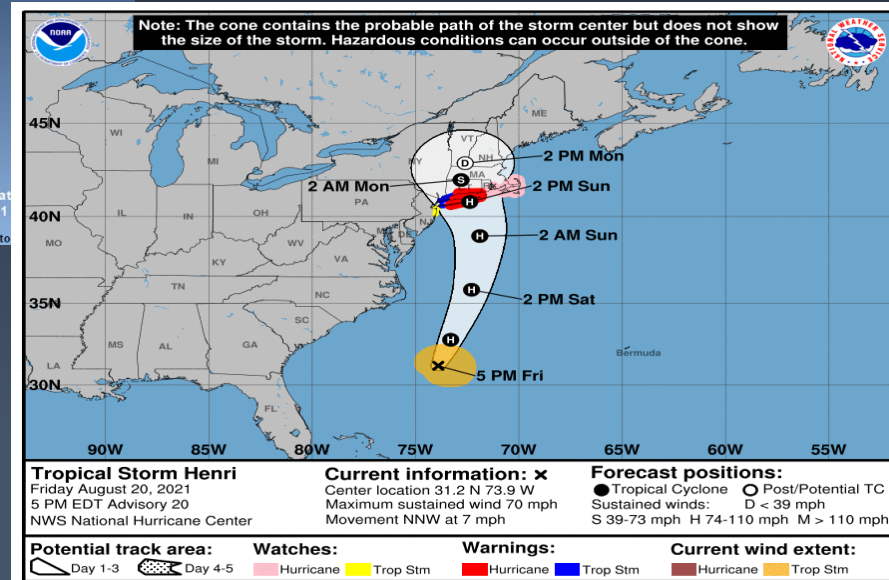


Rainfall Analysis 0" - 50"



This is an experimental product. Care should be taken in using the data. Unofficial observations are plotted. Values at interpolated locations may not represent actual precipitation.

Hurricane Henri took an unusual track on its way to bringing heavy rainfall to most of NE PA and parts of CNY. The system stalled and eventually tracked westward, becoming a remnant low over the Hudson Valley & Catskills. The heavy rainfall circulated into the region from the north and east, similar to the famed winter time nor'easters. Max rain reports were 2-5" across the Poconos of NE PA.



More Information, Including radar and satellite Loops:
<https://www.weather.gov/bgm/pastFloodAugust232021>



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Hurricane Henri: Heavy Rain

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Flooding and Heavy Rain Reports

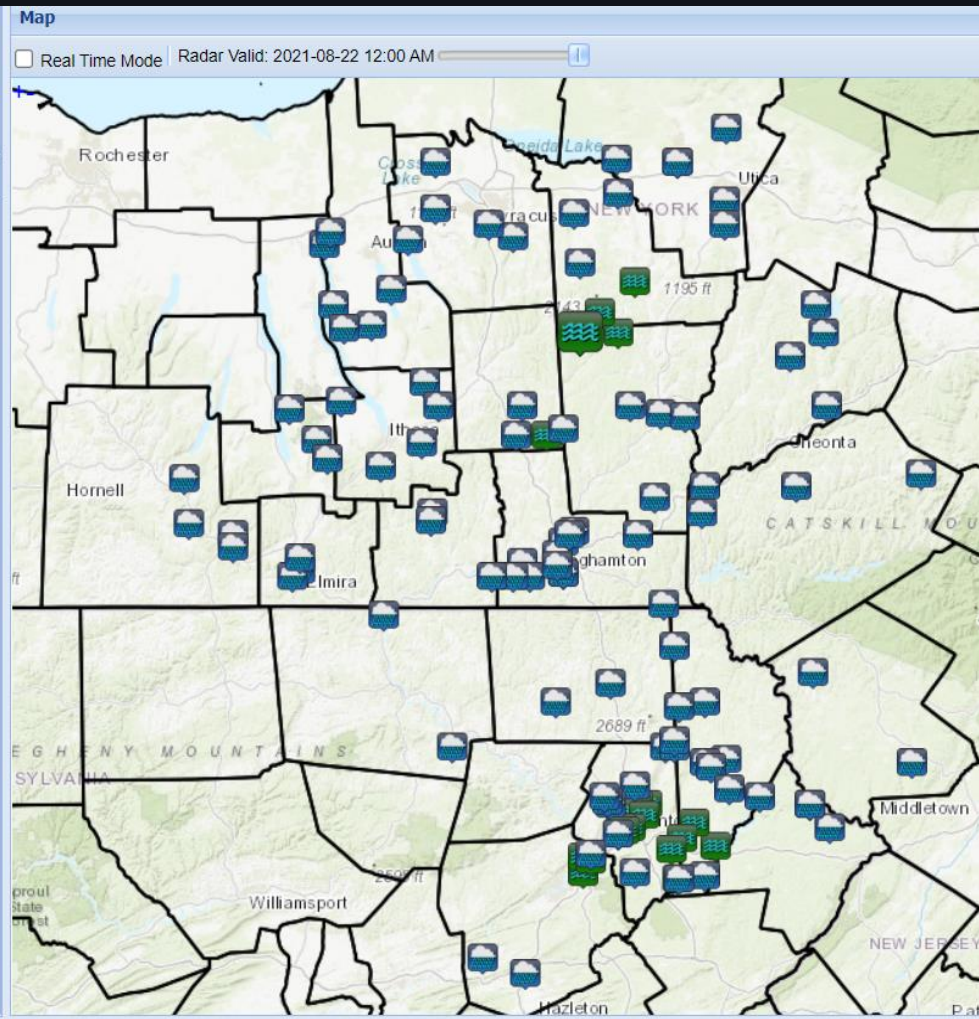
Event Time Slider

BGMx Start 22 Aug 2021 12:00 AM End 24 Aug 2021 8:20 PM Load

Help Local Storm Report Information Storm Based Warnings

Print Data Grid Export to Excel... Save Shapefile Expand All

Office	Report Time	County	Location	ST	Event Type	Mag.
BGM	2021-08-22 10:3...	Chenango	2 SSW South Le...	NY	FLASH FLOOD	0
BGM	2021-08-22 9:00...	Lackawanna	1 SSW Blakely	PA	FLASH FLOOD	0
BGM	2021-08-22 9:00...	Lackawanna	1 SSE Peckville	PA	FLASH FLOOD	0
BGM	2021-08-22 9:05...	Lackawanna	1 SW Dickson City	PA	FLASH FLOOD	0
BGM	2021-08-22 9:15...	Wayne	2 S Tresslarville	PA	FLASH FLOOD	0
BGM	2021-08-22 9:15...	Lackawanna	1 WNW Dunmore	PA	FLASH FLOOD	0
BGM	2021-08-22 9:30...	Lackawanna	1 NNE Scranton	PA	FLASH FLOOD	0
BGM	2021-08-22 9:53...	Wayne	2 NE Quicktown	PA	FLASH FLOOD	0
BGM	2021-08-22 10:0...	Madison	1 W Georgetown	NY	FLASH FLOOD	0
BGM	2021-08-22 10:0...	Madison	1 W Eaton	NY	FLASH FLOOD	0
BGM	2021-08-22 10:1...	Lackawanna	1 NNE Lehigh	PA	FLASH FLOOD	0
BGM	2021-08-22 10:2...	Chenango	4 NNE Lincklaen	NY	FLASH FLOOD	0
BGM	2021-08-22 10:3...	Luzerne	1 ENE Inkerman	PA	FLASH FLOOD	0
BGM	2021-08-22 10:4...	Luzerne	1 NNW West Pitt...	PA	FLASH FLOOD	0
BGM	2021-08-22 11:0...	Luzerne	Hughestown	PA	FLASH FLOOD	0
BGM	2021-08-22 8:40...	Lackawanna	1 WSW Winton	PA	FLOOD	0
BGM	2021-08-22 8:50...	Wayne	Ledgerdale	PA	FLOOD	0
BGM	2021-08-22 9:15...	Lackawanna	Olyphant	PA	FLOOD	0
BGM	2021-08-22 10:0...	Cortland	2 WSW Willet	NY	FLOOD	0
BGM	2021-08-22 10:2...	Lackawanna	1 SW Quicktown	PA	FLOOD	0
BGM	2021-08-22 10:3...	Lackawanna	1 NE Scranton	PA	FLOOD	0
BGM	2021-08-23 7:00...	Wayne	1 NE Angels	PA	HEAVY RAIN	5.34
BGM	2021-08-23 7:00...	Lackawanna	1 NE Lehigh	PA	HEAVY RAIN	5



Summary

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- Another very wet, almost record wet, month for many locations in NE PA and Central NY...following a near record wet July.
- Very warm overnight lows (record warm in some instances) due to very humid conditions much of the month
- Combined near record warm overnight lows for the month, and above average daytime highs for the month lead to the warmest August on record for Syracuse NY!
- Very warm and humid overnight conditions allowed for the 3rd warmest August on record at Avoca PA, and 7th warmest August on record for Binghamton NY.
- Rainfall totals for the month were between 100 to 175% of normal, with a few locations in the Finger Lakes and southern Tug Hill above 200% of normal rainfall
- 6th wettest August on record for both Syracuse and Binghamton NY, with Avoca recording a top 12 wettest August.
- Two remnant tropical systems (Fred & Henri) impacted our area during the second half of the month, bringing widespread heavy rainfall and numerous flooding reports.

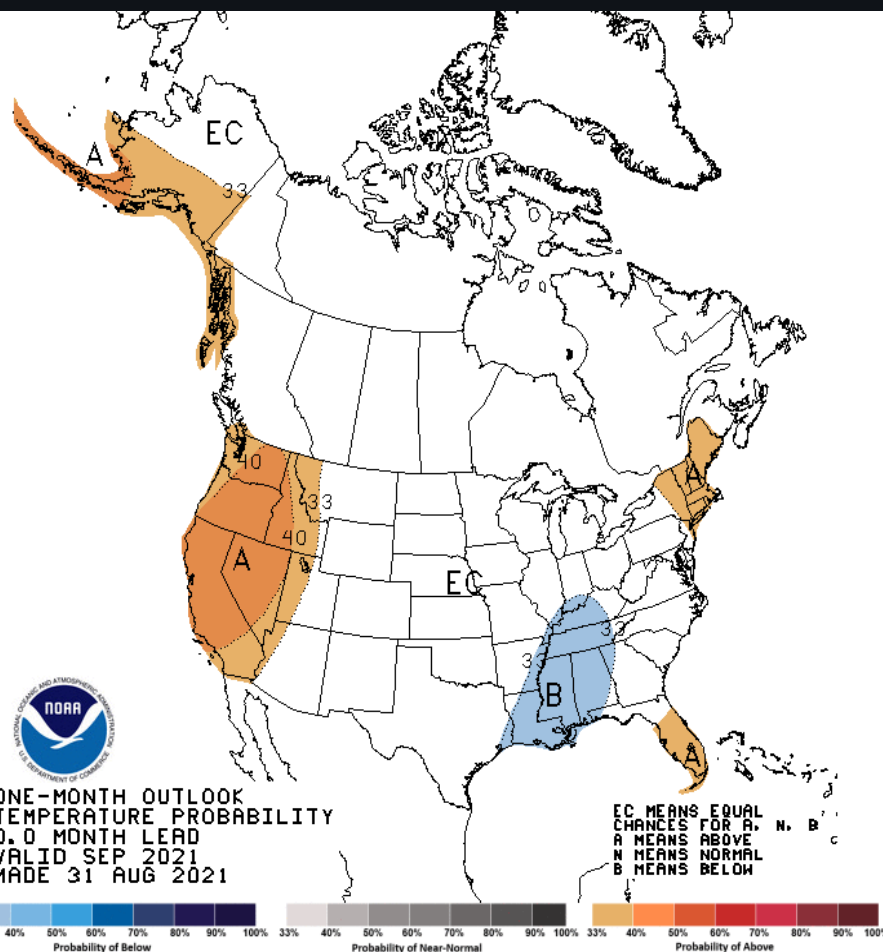
September Outlook

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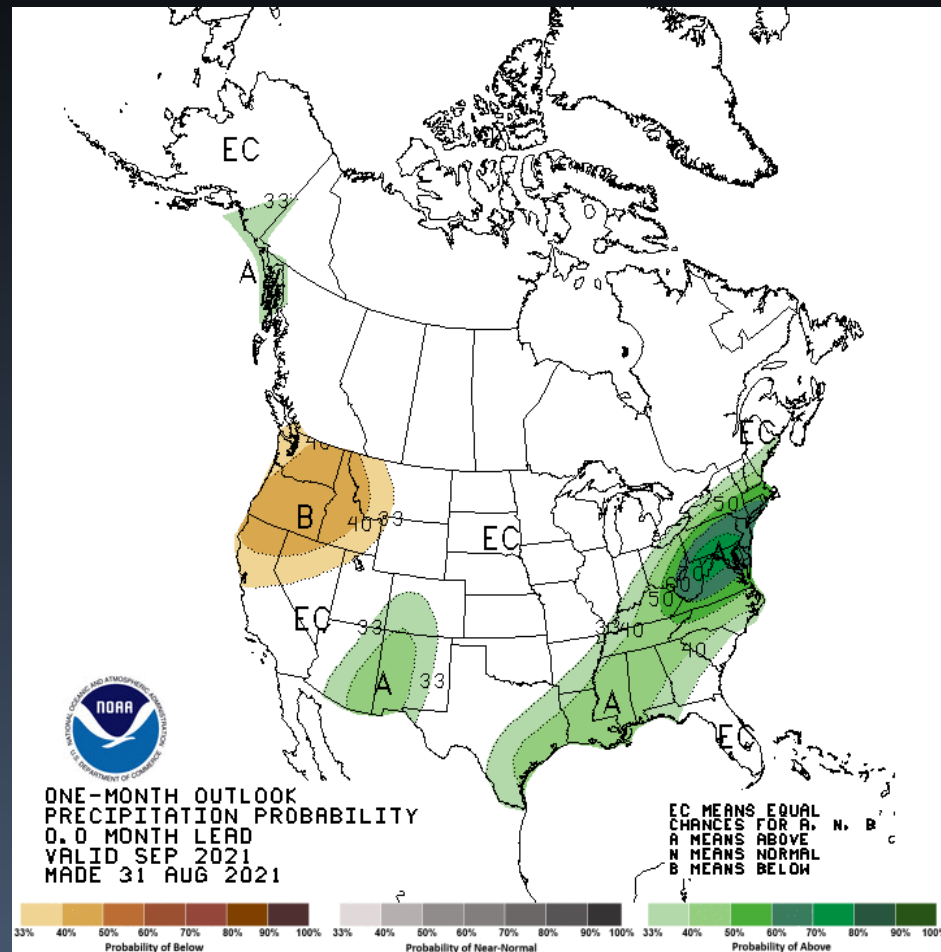


Temperature Outlook

Precipitation Outlook



Near Average Temperatures Favored for the Month Across CNY & NE PA



Above Average Rainfall Favored Across CNY & NE PA (much of this fell in the first 2-days with Ida)



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Thank You!